

Introduction to Construction Technology
Technology Education – Applied Technology Education
Utah State Office of Education
CIP Code 210109

Text Book: ?

COURSE DESCRIPTION: Construction technology provides students with an understanding of how construction impacts their life, both socially and professionally. Students will explore and demonstrate an understanding of five elements of construction:

- Career opportunities
- Design
- Measurements
- Tools
- Materials

STANDARD & OBJECTIVES

- 210109.01 STUDENTS WILL INVESTIGATE CAREER OPPORTUNITIES IN THE CONSTRUCTION INDUSTRY, WILL EXPLORE THE IMPACT OF CONSTRUCTION TECHNOLOGY ON OUR SOCIETY, AND WILL BE ABLE TO IDENTIFY A VARIETY OF CONSTRUCTION TECHNOLOGIES, AND WILL LEARN AND USE SAFETY PRACTICES.
- 210109.0101 The students will identify occupations related to the construction industry.
- 210109.0102 Student will state the differences between past and present methods of construction.
- 210109.0103 Students will identify a variety of systems, methods, and materials used for building construction technology.
- 210109.0104 Students will learn and use safe work habits and techniques.
- 210109.02 DEMONSTRATE AN UNDERSTANDING OF THE BENEFITS AND LIMITATIONS OF CONSTRUCTION DESIGN.
- 210109.0201 Students will Identify design factors in Energy.
- 210109.0202 Students will Identify design factors in Geography
- 210109.0203 Students will Identify design factors in Materials
- 210109.0204 Students will Identify design factors in Material availability.
- 210109.03 DEMONSTRATE BASIC MEASUREMENT PRINCIPLES THAT INCORPORATE APPLIED MATH APPLICATIONS RELATED TO CONSTRUCTION PRACTICES.
- 210109.0301 Students will measure using standard construction tools.
- 210109.0302 Students will understand scale drawing.
- 210109.0303 Students will demonstrate estimating principles.

210109.04 IDENTIFY AND USE COMMON HAND AND POWER TOOLS USED IN THE CONSTRUCTION INDUSTRY.

210109.0401 The Student will identify common hand tools used in the construction industry.

210109.0402 The Student will identify common power tools used in the construction industry.

210109.0403 Students will understand and demonstrate safe practices regarding the use of these tools.

210109. 05 IDENTIFY THE BASIC APPLICATIONS OF SPECIFIC MATERIALS AND FASTENERS IN CONSTRUCTION SYSTEMS.

210109.0501 Student will identify structural materials used in construction.

210109.0502 Students will identify exterior covering materials used in construction.

210109.0503 Students will identify interior covering materials used in construction.

210109.0504 Students will identify fasteners used in construction.

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